NADY AUDIO™

CROSSOVER

CX-23SW

3-WAY STEREO PLUS SUBWOOFER

OWNER'S MANUAL

CX-23SW

3-WAY STEREO+SUBWOOFER CROSSOVER

NADY AUDIO™

Congratulation!

You have just purchased one of the finest professional crossovers on the market today. This unit was developed using the expertise of professional sound engineers and working musicians. You will find your new NADY AUDIO crossover has superior performance and greater flexibility than any other crossover in its price range.

Read this manual carefully to get the most out of your new unit. Thanks for selecting NADY AUDIO for your choice in power crossovers.

Date of Purchase _____

Dealer's Name _____

City _____

State _____

Zip _____

Model # _____

Serial # _____

Features

Crossovers provide precise frequency dividing for multi-amplified speaker applications, and are valuable tools in many professional live sound uses. The CX-23SW offers 3-way active LOW/MID/HIGH outputs for each stereo channel and a mono subwoofer output. It is simple to set up and operate and is the perfect choice for basic multi-amps, multi-speaker stereo installations.

- Single rack space (1U)
- Shielded internal power supply with AC voltage select switch (~115V/60Hz or ~230V/50Hz)
- Phase inversion switches
- Low-cut subsonic filters for low frequency driver protection
- Servo-balanced XLR inputs/outputs
- Superior performance with transparent audio

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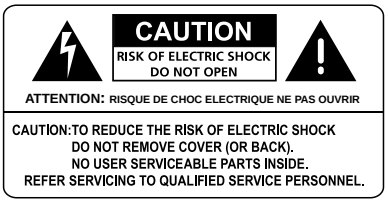


An equilateral triangle enclosing a lightning flash/arrowhead symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure which may be of sufficient magnitude to constitute a risk of electric shock.

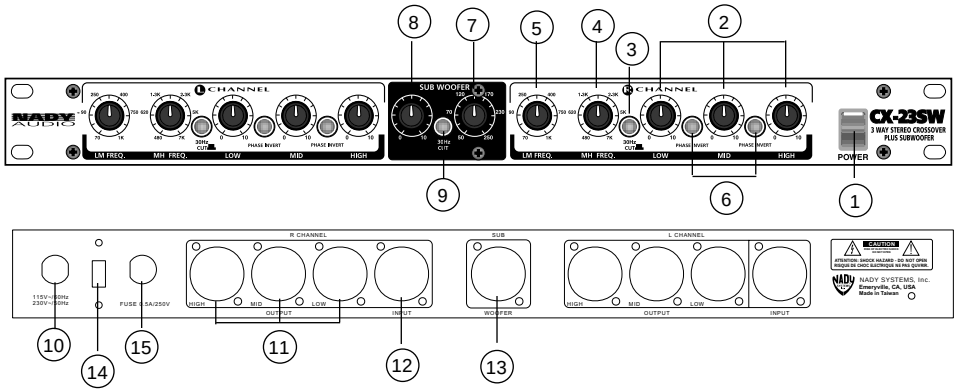
An equilateral triangle enclosing an exclamation point is intended to alert the user to the presence of important operating and service instructions in the literature enclosed with this unit.

IMPORTANT SAFETY INSTRUCTIONS

WARNING-When using electric products, basic precautions should always be followed, including the following:

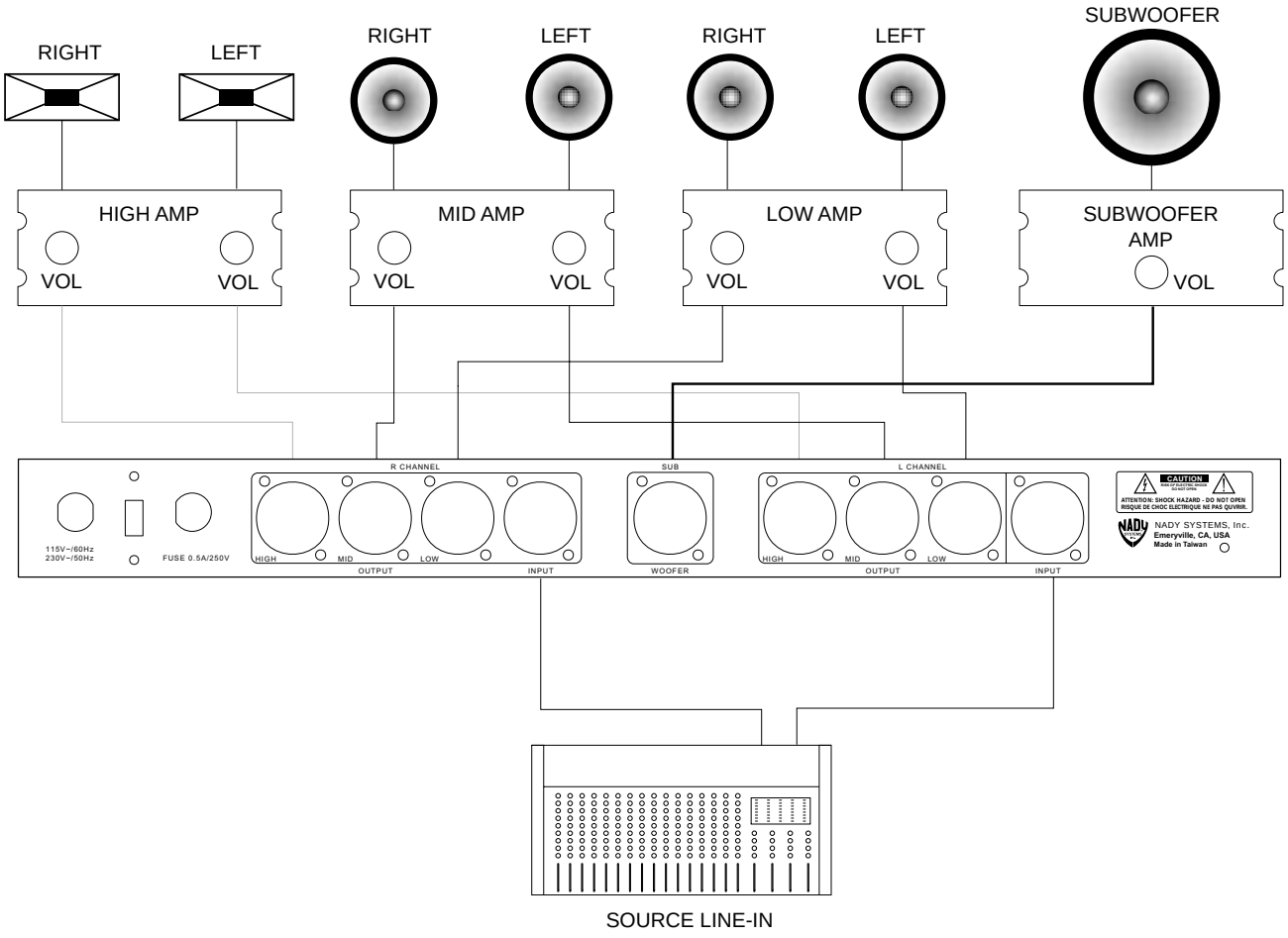
1. Read all the instructions before using the product.
2. Do not use this product near water (e.g., near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, etc.).
3. This product should be used only with a cart or stand that will keep it level and stable and prevent wobbling.
4. This product, in combination with headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat vents, or other devices (including amplifiers) that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product. Replace the fuse only with one of the specified type and size and with the correct rating.
8. The power supply cord should: (1) be undamaged, (2) never share an outlet or extension cord with other devices so that the outlet’s or extension cord’s power rating is exceeded, and (3) be left plugged into the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall into, and liquids are not spilled through, the enclosure’s openings.
10. The product should be serviced by qualified service personnel when:
    A. The power supply cord or the plug has been damaged; or
    B. Objects have fallen into, or liquid has been spilled onto the product; or
    C. The product has been exposed to rain; or
    D. The product does not appear to operate normally or exhibits a marked change in performance; or
    E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond what is described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

Controls and Connections



1. **ON/OFF SWITCH:**
   Caution: Always turn the Crossover ON before the amplifier, and turn it OFF after the amplifier or transients harmful to the speakers may result .
2. **L/M/H OUTPUT LEVEL CONTROLS:**
   These are used to adjust the output level of each way : LOW, MID and HIGH .
3. **LOW CUT SWITCHES FOR LOW WAY:**
   These insert low cut filters in the LOW way of each stereo channel with a 12dB/Octave, 30 Hz HPF to minimize problems from subsonic frequencies in the signal, to suppress hum, and to prevent low frequency speaker resonance.
4. **MH CROSSOVER FREQUENCY CONTROLS:**
   These select the crossover frequencies of the MID and HIGH ways. They're a low cut for the HIGH and a high cut for the MID. You can select the frequencies between 480 Hz to 7 kHz.
5. **LH CROSSOVER FREQUENCY CONTROLS:**
   These select the crossover frequencies of the LOW and MID ways. They're a low cut for the MID and a high cut for the LOW. You can select the frequency between 70 Hz to 1 kHz.
6. **PHASE SWITCHES:**
   These allow switching the polarity to invert the signal phase on the MID and HIGH ways. This is done after the output levels are set to correct audible phase problems.
   Caution: Before pressing the PHASE switches, always lower the outputs of your power amplifiers to avoid possible speaker damage.
7. **SUB CROSSOVER FREQUENCY CONTROL:**
   This selects the crossover frequency of the SUB WOOFER way. You can select the frequency between 50 Hz to 250 Hz.
8. **SUBWOOFER OUTPUT LEVEL CONTROL:**
   This is used to adjust the SUB WOOFER output level.
9. **SUBWOOFER LOW CUT SWITCHES:**
   This inserts a low cut filter in the SUBWOOFER way with a 12dB/Octave, 30 Hz HPF to minimize problems from subsonic frequencies in the signal, to suppress hum, and to prevent low frequency subwoofer speaker resonance.
10. **AC CORD**
11. **L/M/H OUTPUT CONNECTORS:**
    Connect to your amplifiers via these balanced XLR output jacks.
12. **STEREO INPUT CONECTORS:**
    Connect your L/R stereo input signal to these balanced XLR input jacks.
13. **SUBWOOFER OUTPUT CONECTOR:**
    Connect to your subwoofer amplifier via this balanced XLR output jack.
14. **AC VOLTAGE SELECTOR SWITCH:**
    Before plugging in the power cord, check to see that the unit is set for the proper voltage for your area: ~115V (60Hz) or ~230V (50Hz).
15. **FUSE COMPARTMENT :**
    Replace with only the same type fuse (0.5A/250V). If it blows continuously, do not use the unit until it has been serviced by qualified personnel.

Typical Set-up



Specifications

Crossover Type:	Stereo 3 ways + Subwoofer
Crossover Frequencies	
Subwoofer:	50 - 250Hz
LM:	70 – 1000Hz
MH:	480 – 7000Hz
Filter Type (Slope):	2nd order, 12dB/Octave
Inputs	
Type:	Balanced XLR
Impedance:	100 Kohms
Outputs	
Type:	Balanced XLR
Impedance:	220 Ohms
Low Cut Filters:	30Hz/ - 3dB, 12dB/Octave
Frequency Response:	25Hz - 25KHz +/-1dB
Total Harmonic Distortion (THD) + Noise :	< 0.05 %
S/N Ratio:	> 80 dB
Fuse:	0.5 A/ 250V, 5x20mm glass type
Dimensions:	19'' x 1.73'' x 5.9'' (483 X 44 X 150mm)
Weight:	4.4 lbs. (2.2 Kg)

For improvement purposes, specifications and design subject to change without prior notice

SERVICE FOR YOUR NADY AUDIO PRODUCT

(U.S.) Should your NADY AUDIO product require service, please contact the Nady Service Department via telephone at (510) 652-2411 or E-mail at service@nadywireless.com.

(International) For service, please contact the NADY AUDIO distributor in your country through the dealer from whom you purchased this product.

DO NOT ATTEMPT TO SERVICE THIS UNIT YOURSELF AS IT CAN BE DANGEROUS AND ALSO WILL VOID THE WARRANTY.

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